# BlueKeyboard for BlackBerry
# User's Manual
# V3.0

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**END OF EULA**

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# Preface / Features

The *BlueKeyboard* - the Bluetooth keyboard and its driver - that runs on BlackBerry OS™ powered Bluetooth devices will allow you to input data wirelessly using Bluetooth technologies. With features listed below it will give user a new experience in mobile computing.

## Hardware Functions:

## HOW TO PREPARE THE CRADLE...

**HARDWARE FEATURES:**

- ☐ Bluetooth technology
- ☐ Compact foldable design
- ☐ Detachable fold-out cradle for device
- ☐ 63 full size keys
- ☐ QWERTY layout with dedicated number keys
- ☐ Lock open for laptop stability
- ☐ Power on/off Switch
- ☐ Bi-color LED for Bluetooth connection and power status
- ☐ 90 hrs continuous operation time, 168 hrs standby time
- ☐ Open dimension: 279mm x 95mm x 13mm
- ☐ Close dimension: 143mm x 95mm x 19mm
- ☐ Key lifetime: 10 millions presses
- ☐ Manufacturer warranty: 1 year

**SOFTWARE FEATURES:**

- ☐ Support USA, Germany, and Spanish keyboard layout
- ☐ Shortcuts and user programmable keys for specific tasks
- ☐ Multitasking - easy switching between applications
- ☐ Extended symbol/character mapping
- ☐ Typomatic rate control - adjustable repeat rate and repeat delay
- ☐ Auto On/Off backlight for easy typing and reading
- ☐ Audible keyboard connect/disconnect indicators with volume control

**ATTENTION! BlackBerry Enterprise Server (BES) user!**

Please contact your BES administrator and refer to **BlackBerry Enterprise Server (BES) Configuration** section on this manual to get the *BlueKeyboard* works.

# System Requirements

**THE *BLUEKEYBOARD* DRIVER**

The driver CD comes together with the Bluetooth keyboard you bought. In case you don't have the CD, please download the driver from *BlueKeyboard* website at: www.bluekeyboard.com. At least 100 KB free space on your device is needed to install the *BlueKeyboard* driver.

**HANDSET COMPATIBILITY**

The *BlueKeyboard* has been tested with the BlackBerry device models and OS version as listed below. If your device and its OS version are not listed, there is good possibility it will work. However, Xema cannot guarantee it will work.

| Model | OS Version | Platform Version |
|---|---|---|
| 7100 | 4.1.0.136 | 2.0.0.44 |
| 7130 | 4.1.0.117 | 2.2.0.53 |
| 7250 | 4.0.0.204 | 2.0.0.28 |
| 7290 | 4.0.0.219 | 1.8.0.129 |
| 7520 | 4.0.0.160 | 1.4.0.27 |
| 8700 | 4.1.0.206 | 2.0.0.97 |

**COMPUTER HARDWARE/SOFTWARE**

- ☐ A computer with at least one USB port.
- ☐ Microsoft Windows 98SE/ME/2K/XP. This user manual is based on Win XP.
- ☐ BlackBerry Desktop Software with **Desktop Manager 4.0** or above.
- ☐ USB Cable which come together with your BlackBerry device.

# Driver Installation

**PRE-INSTALLATION CHECK LIST**

- ☐ Make sure the USB cable connected to your BlackBerry handset and computer.
- ☐ Uninstall all old keyboard drivers from your BlackBerry handset.

This installation is a two steps process. The first step is to install the *BlueKeyboard* driver from CD (or from internet download) into your computer. The second step is to install the driver from your computer to the BlackBerry handset. Please follow step-by step below.

**A. INSTALL THE DRIVER FROM CD TO COMPUTER**

A1. Insert the driver installation CD into the computer and let it run. The first BlueKeyboard setup window appears like below; click **[BlackBerry]** button.

- If the installation CD doesn't run automatically, please double click **BlueKeyboard Setup.exe** file which located under **<CD-Drive>:/Drivers/BlueKeyboard v300** folder.

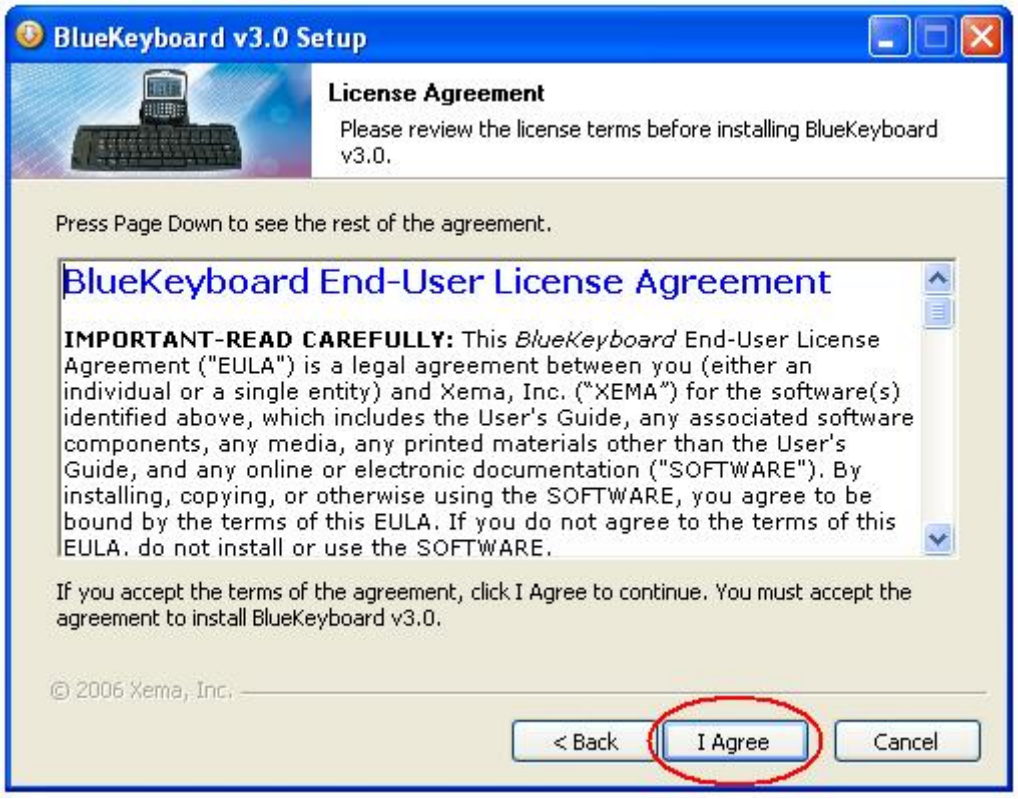
- If you download the driver from *BlueKeyboard* website, please decompress the downloaded package and run the **BlueKeyboard Setup.exe** file. This installation start from step A3.

A2. Select your preferred language and click **[OK]** to continue to setup wizard.

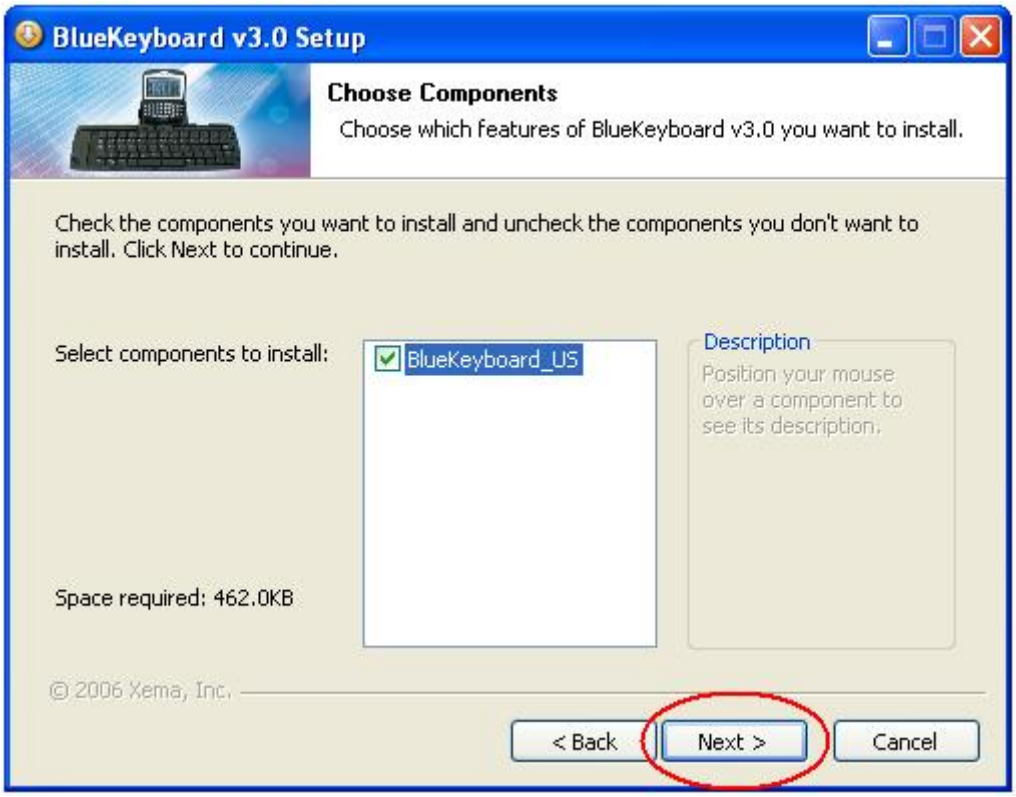
A3. The setup wizard starts when you click **[NEXT]**.

BlueKeyboard v3.0 Setup
XEMA™
BlueKeyboard
Welcome to the BlueKeyboard v3.0 Setup Wizard
This wizard will guide you through the installation of BlueKeyboard v3.0.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

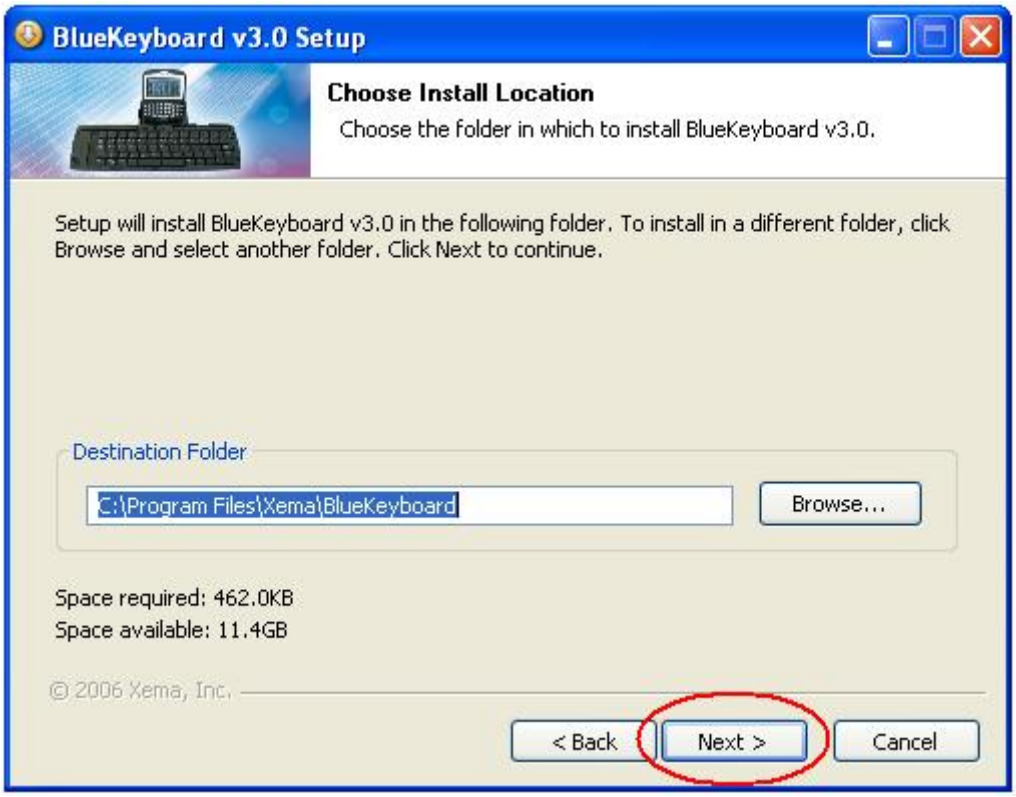
A4. Please read the End-User License Agreement (EULA) and click **[I Agree]** to continue with the driver installation; otherwise click **[Cancel]** to cancel the installation.


BlueKeyboard v3.0 Setup
License Agreement
Please review the license terms before installing BlueKeyboard v3.0.
Press Page Down to see the rest of the agreement.
BlueKeyboard End-User License Agreement
IMPORTANT-READ CAREFULLY: This BlueKeyboard End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Xema, Inc. ("XEMA") for the software(s) identified above, which includes the User's Guide, any associated software components, any media, any printed materials other than the User's Guide, and any online or electronic documentation ("SOFTWARE"). By installing, copying, or otherwise using the SOFTWARE, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, do not install or use the SOFTWARE.
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install BlueKeyboard v3.0.
© 2006 Xema, Inc.
< Back
I Agree
Cancel

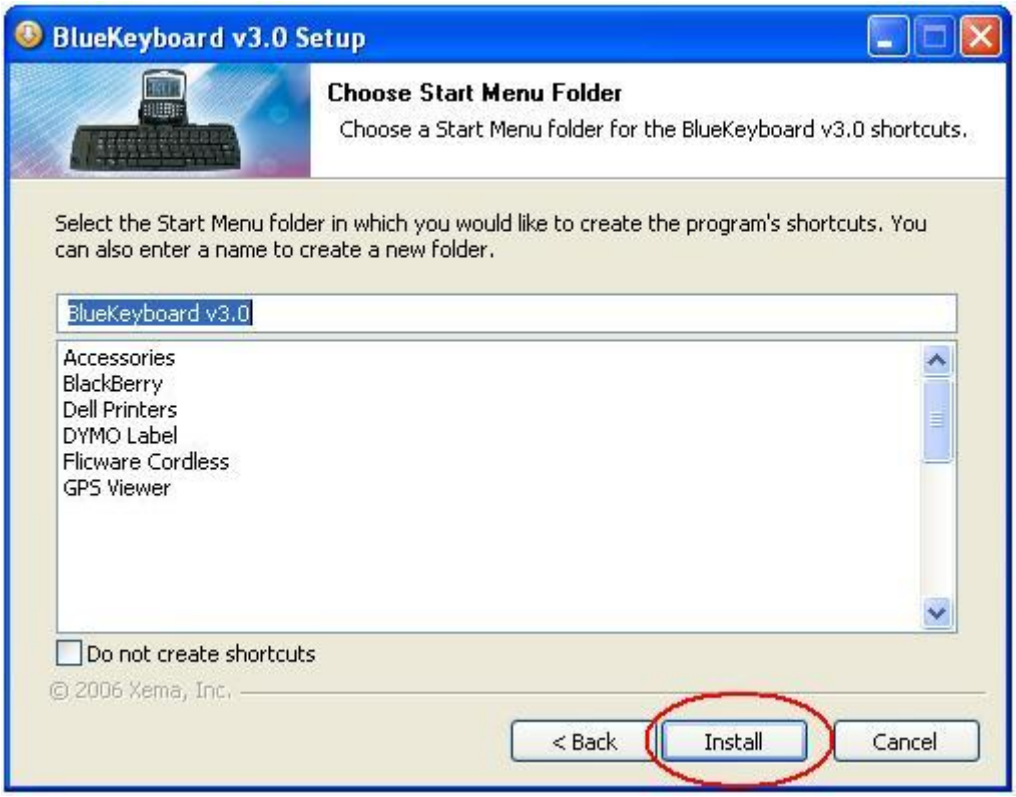
A5. Select the driver(s) you want to install and click **[Next]**.


BlueKeyboard v3.0 Setup
Choose Components
Choose which features of BlueKeyboard v3.0 you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
BlueKeyboard_US
Description
Position your mouse over a component to see its description.
Space required: 462.0KB
© 2006 Xema, Inc.
< Back
Next >
Cancel

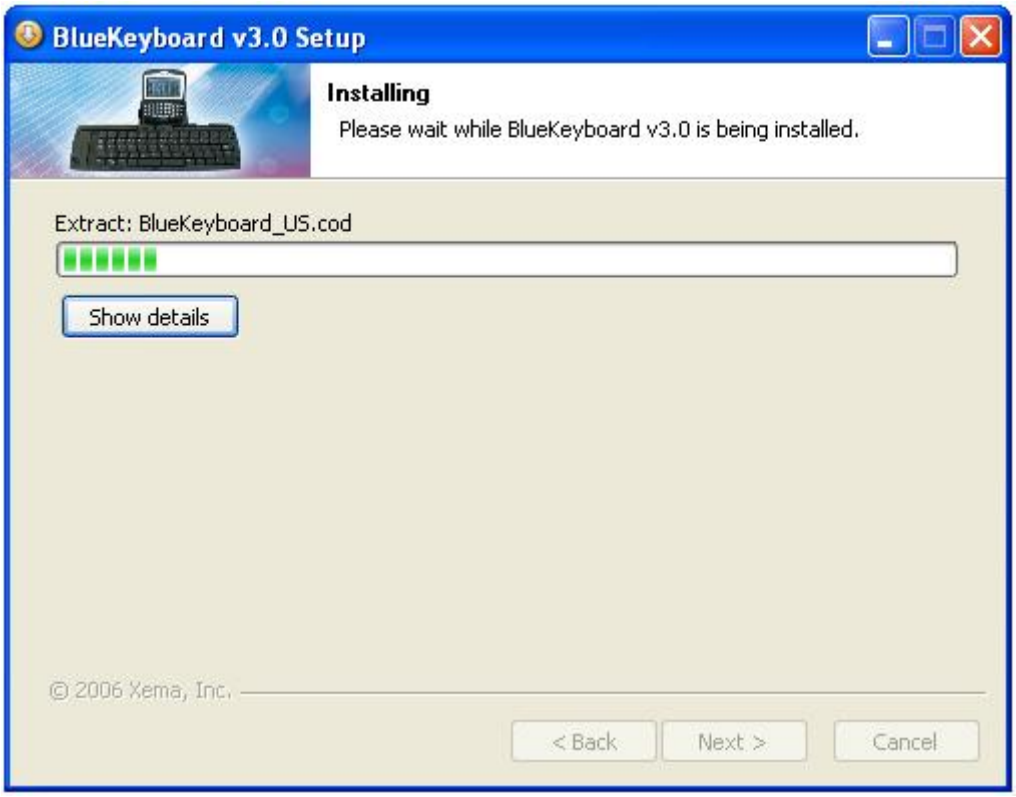
A6. The default installation location is as stated on **[Destination Folder]** field; replace it with your preferred location if you like. Click **[Next]** to continue.


BlueKeyboard v3.0 Setup
Choose Install Location
Choose the folder in which to install BlueKeyboard v3.0.
Setup will install BlueKeyboard v3.0 in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Program Files\Xema\BlueKeyboard
Browse...
Space required: 462.0KB
Space available: 11.4GB
© 2006 Xema, Inc.
< Back
Next >
Cancel

A7. Type the start menu folder for shortcuts and enter to **[Install]**.

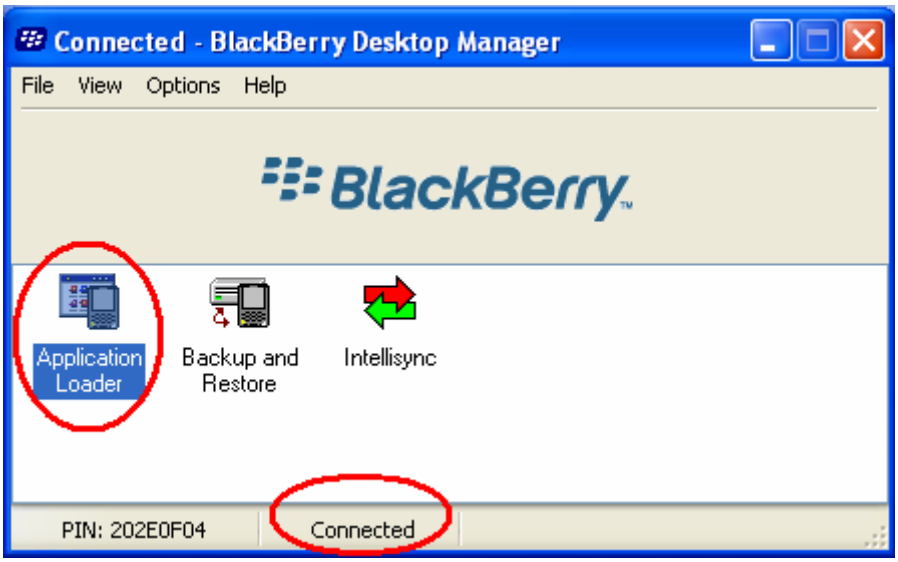

BlueKeyboard v3.0 Setup
Choose Start Menu Folder
Choose a Start Menu folder for the BlueKeyboard v3.0 shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
BlueKeyboard v3.0
Accessories
BlackBerry
Dell Printers
DYMO Label
Flicware Cordless
GPS Viewer
Do not create shortcuts
© 2006 Xema, Inc.
< Back
Install
Cancel

A8. The program starts to copy all selected files to your computer. Click **[Finish]** and the first step of installation is done!

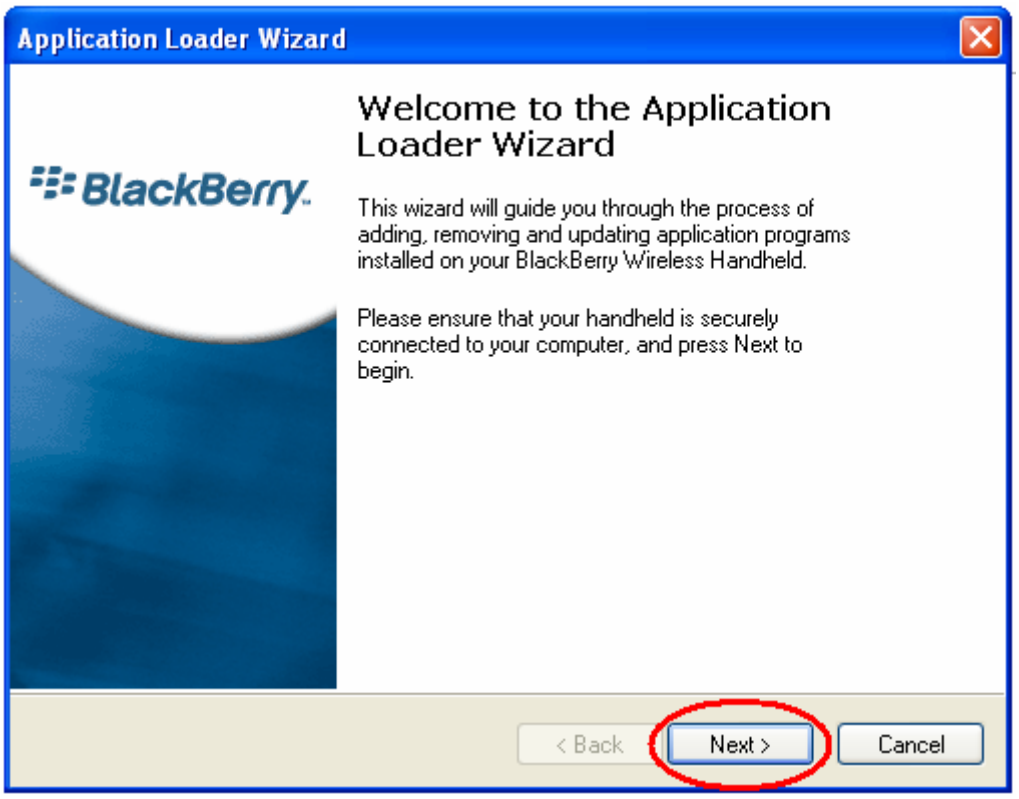


**B. INSTALL THE DRIVER FROM COMPUTER TO BLACKBERRY HANDSET**

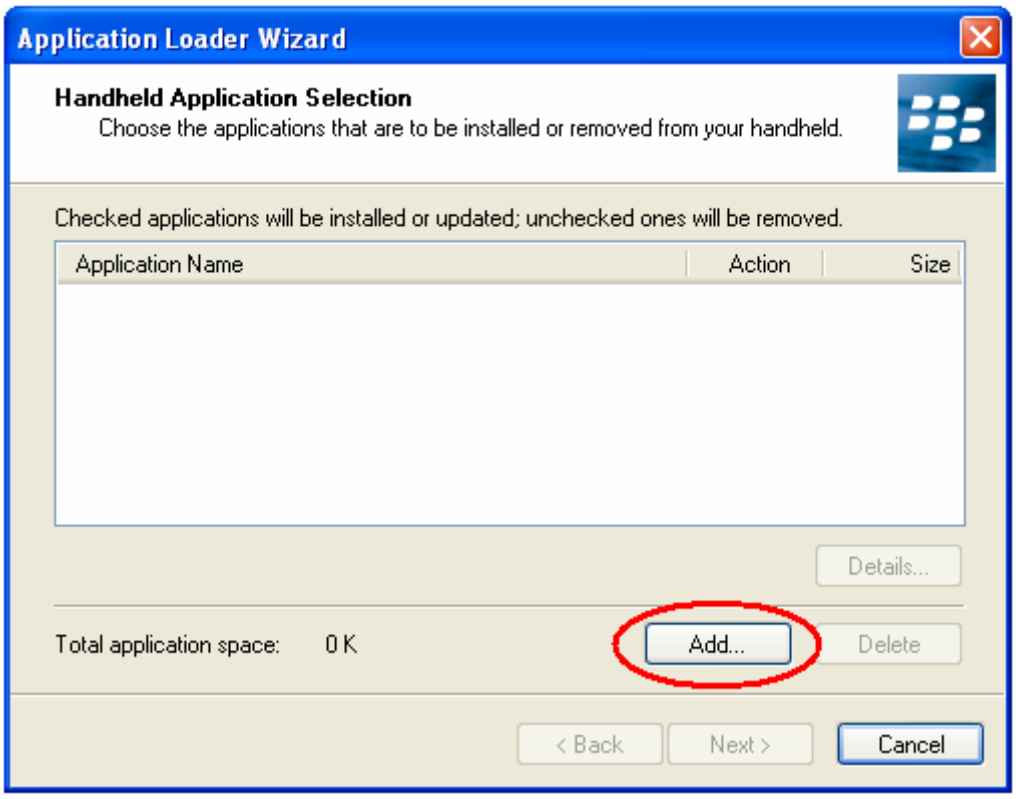
B1. Launch the **BlackBerry Desktop Manager** on your computer, make sure your computer **Connected** to BlackBerry device then click the **[Application Loader]** to start the wizard.



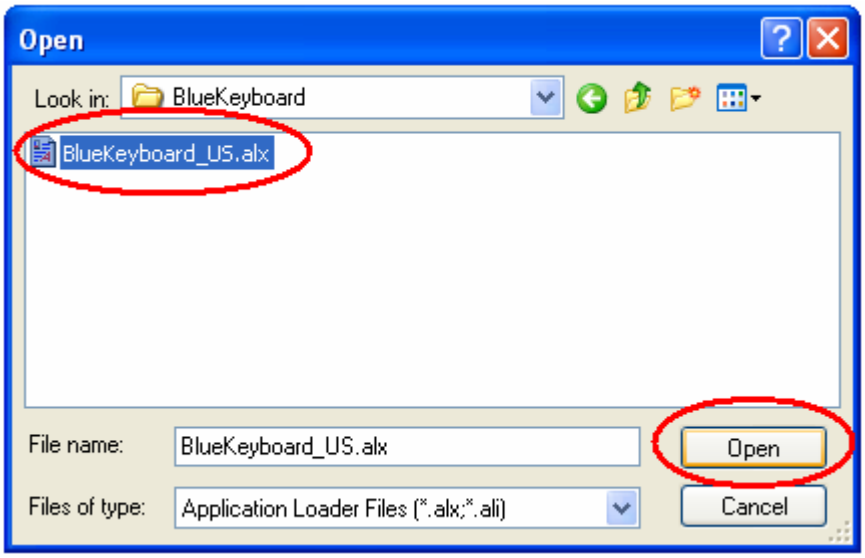

B2. Click **[Next]** and the Application Loader Wizard will prepare the drivers installation on your BlackBerry handset.


Application Loader Wizard
BlackBerry
Welcome to the Application Loader Wizard
This wizard will guide you through the process of adding, removing and updating application programs installed on your BlackBerry Wireless Handheld.
Please ensure that your handheld is securely connected to your computer, and press Next to begin.
< Back
Next >
Cancel

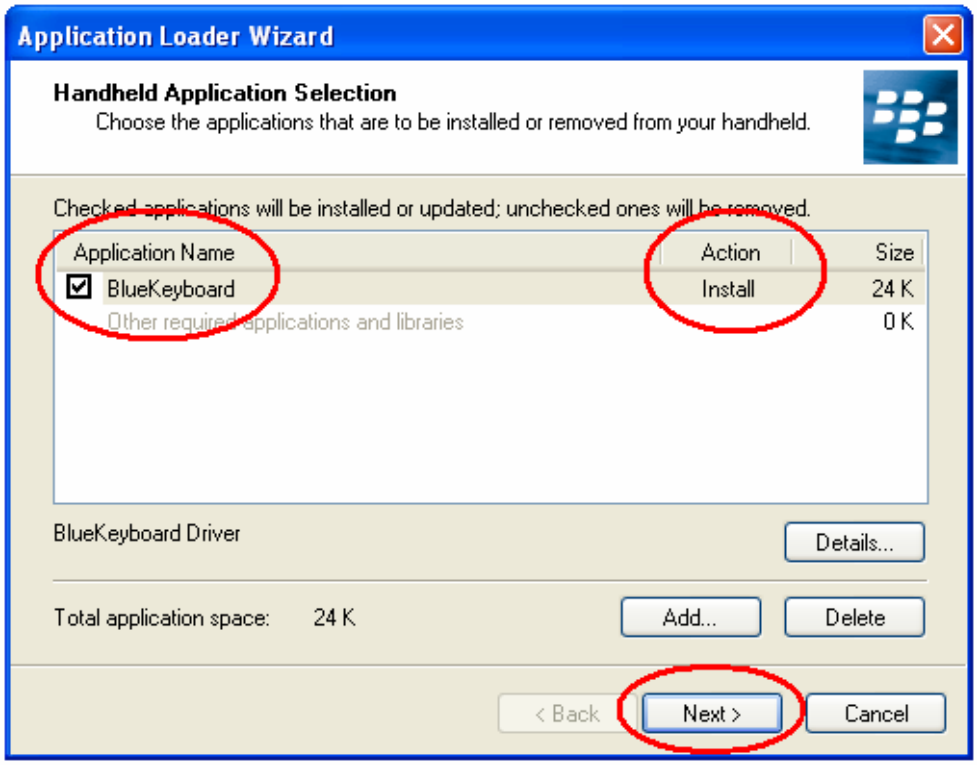
B3. If *BlueKeyboard* is not listed on the **Application Name** list, use the **[Add]** button to locate the file in the installation directory. As explained on Step A6 above, the default file location is **C:/Program Files/ Xema/BlueKeyboard.**




B4. Select **BlueKeyboard_US.alx** file and Click **[Open]** to continue the installation.



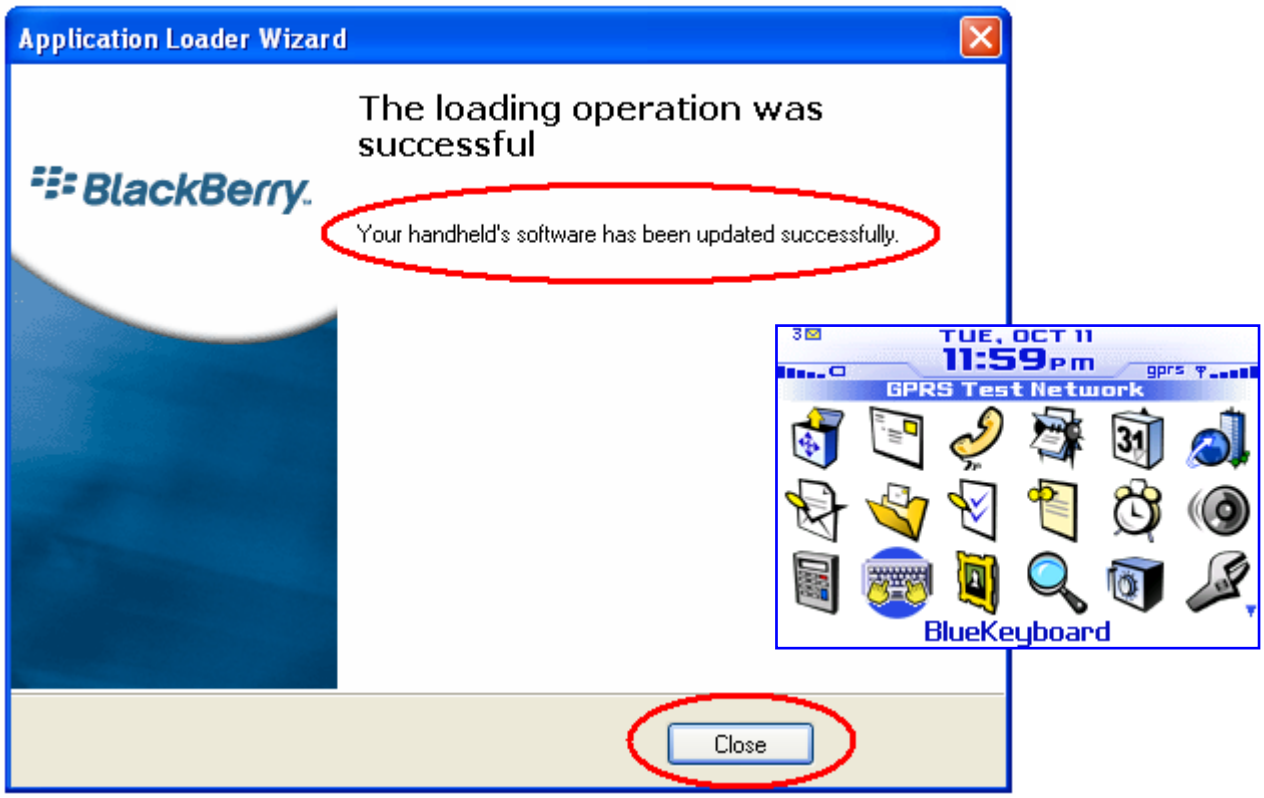
B5. The ***BlueKeyboard*** should be listed on the **Application Name** list now. Make sure the **Action** column says **'Install'**. Click **[Next]** to continue.




6B. This is the last step before the **Application Loader** program installs the *BlueKeyboard* driver to your BlackBerry handset. You can read a summary of what you are about to install on the window. Click **[Finish]** to finalize the installation process.

Application Loader Wizard
BlackBerry
Completing the Application Loader Wizard
Press Finish to start the loading process with the options summarized below, or press the Advanced button to select additional loading options.
Applications to be installed or updated:
BlueKeyboard
Advanced...
< Back
Finish
Cancel

B7. **[Close]** the Application Loader Wizard once the installation done successfully. Now you should see *BlueKeyboard* icon (the icon with two hands typing a keyboard) on your BlackBerry handheld screen like picture below.

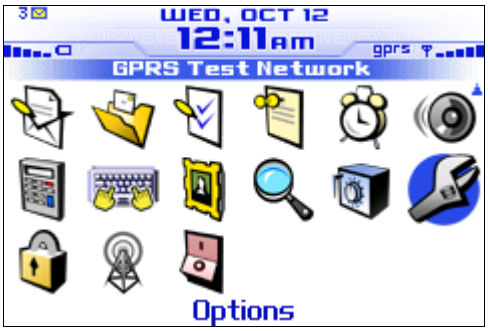


# Pairing the Bluetooth

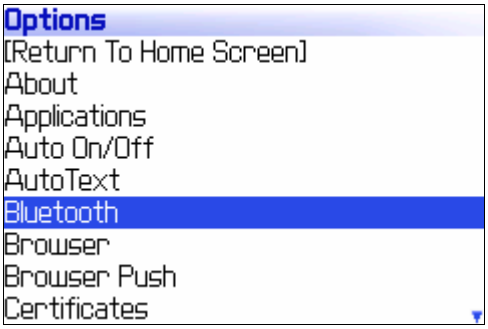
**Check list:**

- ☐ Disable any other Bluetooth keyboard you may have installed or be using.
- ☐ Check the battery power.

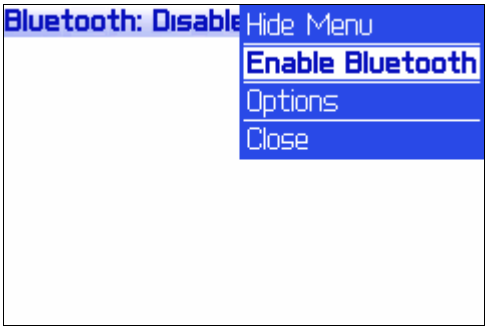
Steps below show you how to pair the Bluetooth of the BlackBerry handset to the *BlueKeyboard*.



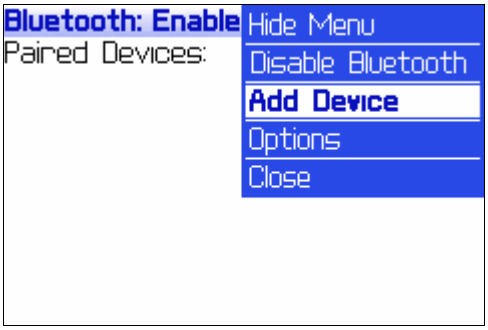

1. Turn on the keyboard power; make sure the green LED is blinking. From the **Home Screen** of BlackBerry device, click **[Options]** icon.



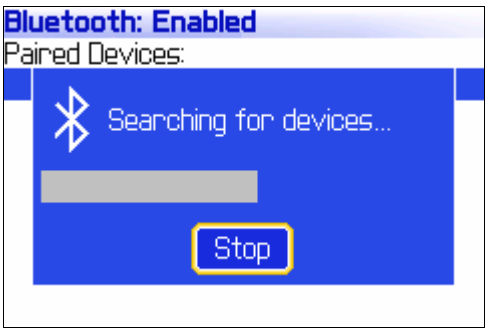

2. Scroll down the list and click **[Bluetooth]**.



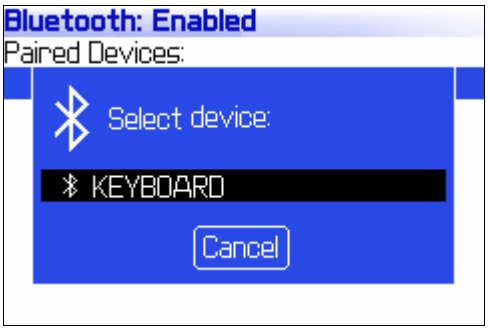

3. If **'Bluetooth: Disabled'** screen appear, click the BlackBerry trackwheel and select **Enable Bluetooth**. Please by pass this step if your device's Bluetooth had been enabled.



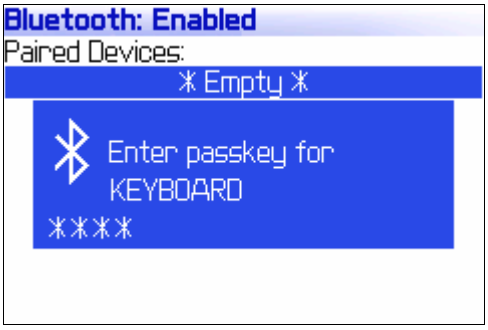

4. Once the Bluetooth enabled, click the trackwheel again to **Add Device**.



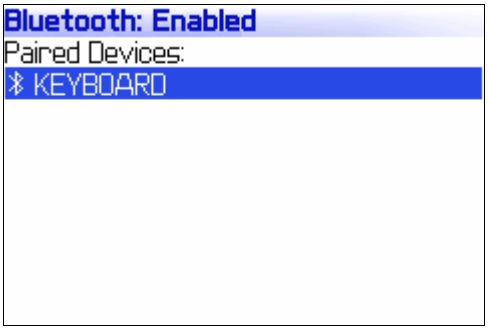

5. …and BlackBerry's Bluetooth start searching for new available devices…




6. After finished the searching, BlackBerry handset will list down all found devices. Select and click the **'KEYBOARD'**.




7. When asked for passkey, please enter **0000** (four zero) and press enter.



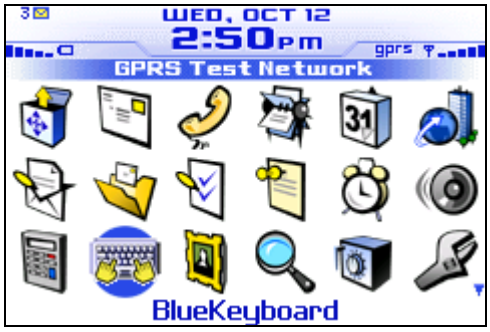

8. If you hear **'beep beep'** sound briefly and the **KEYBOARD** listed on **Paired Devices** list as shown in figure on the left, you had successfully paired the Bluetooth.

# Driver Registration

For security purpose, the *BlueKeyboard* driver was designed to have unique activation code (key code) which works with unique Bluetooth keyboard. The *BlueKeyboard* comes with many adjustable features to let user set their own preferred state. This section of manual will explain the key code registration and the adjustment.

1. Locate the *BlueKeyboard* key code; it is a hexadecimal number in format of **XX-XXXX-XX** (for example: EF-FBF9-BD). Turn on the keyboard power; make sure the green LED is blinking.

2. From the **Home Screen** of BlackBerry device, click **[BlueKeyboard]** icon as shown on the right.

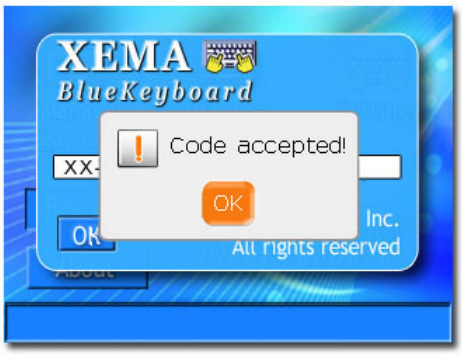



3. On **BlueKeyboard Main Screen** click **[Register]** button and it will take you to register screen.

4. Enter the key code into the **Key Code** field. The key code is case-sensitive, all alphabets must be **CAPITAL**. Scroll the cursor to **[OK]** button and click. You will see **[Code Accepted!]** pop up.

**Attention!**
We recommend you to write down the key code and keep it in save place.

4. Press **[OK]** button and it take you back to **BlueKeyboard Main Screen.**




5. You will hear a brief **'beep-beep'** sound indicate the keyboard now connected to handset.
   Status field should display **'Keyboard Connected'** and you can use your keyboard now!

   Note: If you entered wrong key code you still get **[Code Accepted!]** pop up, but you will not be able to connect the keyboard to your handset in this case; status field should show **'Keyboard Disconnected'**.

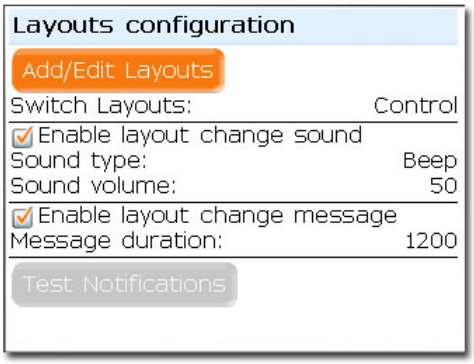
***Note:*** *Bluetooth connection normally takes a few seconds to connect or disconnect; therefore when turning on/off the keyboard power there will be a delay before the status field display any changes.*

# Driver Configuration

**BLUEKEYBOARD MAIN SCREEN**
BlueKeyboard driver application is managed into three categories i.e. LAYOUTS, HOTKEYS, and SETTINGS. Each category has it has options/features which is user adjustable. Detail explanation of each category is as below:

**LAYOUTS**
This is used when multiple keyboard language layouts are used for data input; for example, QWERTY layout for English (US) and QWERTZ layout for Germany. *(Please bypass this section if you use only one language layout.)*

Following screens describe the various options used for managing multi-language layouts.



- **Add/Edit Layouts** – Click this button to enter into **Layout Selection screen** where you may enable or disable specific languages layout. The BlueKeyboard driver is installed with US (English) as default layout.

  Hint: Use **[Space]** key on the keyboard to check or clear the option.

- **Switch Layout** – Select pre-defined hotkeys used for switching between different language layouts.

  Hint: Use **[Left/Right Arrow]** key on the keyboard to roll the options.

- **[√] Enable layout change sound** - Enable/disable audible notification indicating that the driver's layout is about to be switched.

- **Sound volume** – Adjust the level of the handset notification sound.

- **[√] Enable layout change message** - Enable/disable visual notification indicating that the driver's layout is about to be switched.

- **Message duration** – Presets the duration that the visual notification is displayed.

- **Test Notification** – This is used to test how the audible and visual notification works.

**HOTKEYS**
Hotkey is used as shortcut to perform specific task.

**Setup key substitution screen** is the main screen used for managing hotkeys and it displays the list of existing user defined hotkeys. Steps below tell you how to create, edit, copy, or delete hotkeys.

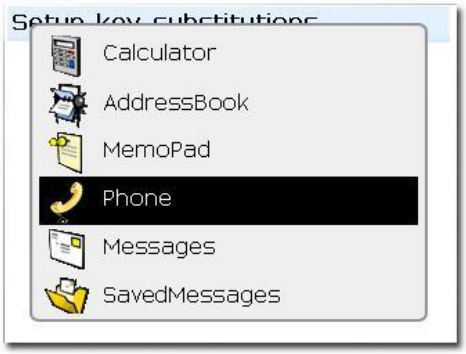
1. From **Setup key substitution screen**, press **[Target]** key on the keyboard once and you will see screen as on the left. Select **New Hotkey** and press **[Enter]** to create a new hotkey.

2. Use **[Left/Right Arrow]** key on the keyboard to select the **Hotkey Sequence** you want to use. You can make 10 hotkeys with range from [Fn+0] to [Fn+9]**.**
   *Example:* select **Func+1**

3. **Action** options let you defines the hotkey action to be carried out. Use **[Left/Right Arrow]** key on the keyboard to choose available actions as listed below:
   - Launch Application
   - Quickdial Number
   - Compose Mail
   - Create Memo
   - Create Task
   - Open Options
   - Start Browser
   - Lock Device
   - Open Profiles
   - Show Home Screen
   - Switch Between Programs

   *Example:* select **Launch Application**

4. Click **Select Application** button and it takes you to screen on the left. Select the application you want to lunch and click.
   *Example:* select **Messages**




5. Now you get screen as on the left. Press **[Home]** and select **Save**.

6. You just successfully created a new **[Fn+1]** hotkey to lunch **Message** application.

   *Tryout!*
   Press **[Fn]** and **[1]** keys on the keyboard on the same time and it will take you to **Message** application's main screen.

   Repeat step-1 to step-6 above to create more hotkeys.

7. To copy, edit, or delete existing hotkeys is easy. Just highlight the hotkey, press [Target], then select **Copy**, **Edit**, or **Delete** and follow the screen.

**SETTINGS**
Is used to configure options/features that controls the way keyboard responds to various user input or conditions. Descriptions below explain these options/features in detail.

- **[√] Keyboard Active** – Check this option to enable connection between BlueKeyboard and handset.
- **BT Address** - is the Bluetooth ID of paired BlueKeyboard.
- **[√] Enable Auto Repeat** – Check this option will enable the **Auto Repeat** function.
- **Repeat delay** – is used to set the length of time before any typed character begins to repeat when you hold down a key. Pre defined values are Slowest, Slow, Normal, Fast, and Fastest.
- **Repeat rate** – is the rate of key input repetition. The range of is 2~20 with the slowest rate at 2 and fastest repeat rate of 20.

- **[√] Connect/Disconnect sound** – Enable/disable audio warning when the keyboard connected or disconnected with the handset.

- **Sound volume** – is used to adjust the volume level of the **Connect/Disconnect sound**.
- **[√] Enable message notification** – Enable visual warning when the keyboard connected or disconnected with the handset.
- **[√] Automatic brightness control** – Enables automatic backlight control when a key is pressed on the keyboard.
- **Brightness off time (sec)** – To conserve the handset battery, the handset backlight can be set to automatically shutoff when no keys are pressed within the specified time.
- **Automatic brightness level (%)** – is used to adjust the default brightness of handset backlit when a key is pressed. The range is 10~100 in increments of 10%.
- **Manual brightness adjust (%)** – is used to adjust the brightness manually.
- **KeyPress sound type** – Enable/disable sound when a key is pressed.
- **KeyPress sound volume** – is used to adjust the volume level of **KeyPress sound type**.

# Key Assignment

## GENERAL KEY USAGE

| | |
|---|---|
| [Target] | Menu PopUp/Select (simulates BlackBerry trackwheel **Click**) |
| [Home] | Esc/Exit (simulates BlackBerry **Esc** push) |
| [Del] | Delete |
| [Space] | Turn on the auto backlight |
| [Alt] | Alt (simulates BlackBerry **Alt** key) |
| [Alt] + [Home] | Multitasking - switching between application |
| [Fn] + [Z] | Launch **Messages** (email) application |
| [Fn] + [X] | Launch **Address Book** application |
| [Fn] + [C] | Launch **Tasks** application |
| [Fn] + [V] | Launch **Calendar** application |
| [Fn] + [0]~[9] | User programmable hotkeys |
| [Fn] + [Caps] | Turn on/off Numlock keys |
| | |
| [Ctrl] + [Tab] | Launch **Search** application |
| [↑] | Move up |
| [↓] | Move down |
| [←] | Move left |
| [→] | Move right |

## TEXT EDITING KEY USAGE

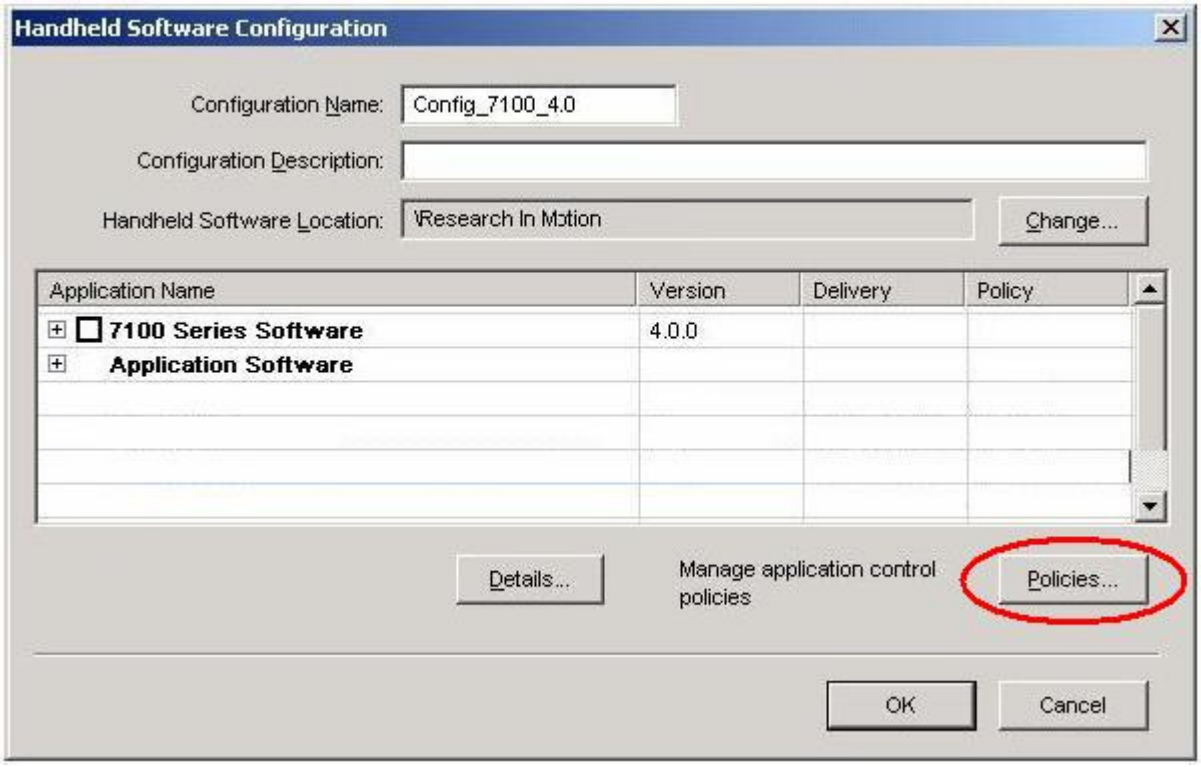
| | |
|---|---|
| [Shift] + [Arrows] | Enter selection mode |
| [Home] | Esc / Close / Exit selection mode |
| [Alt] + [Target] | Copy |
| [Shift] + [Target] | Paste |
| [Alt] + [Keys] | Insert symbol (yellow colored symbol on keyboard) |
| [Backspace] | Delete |
| [Del] | Delete |
| [↑] | Move up a row |
| [↓] | Move down a row |
| [←] | Move left one characters (depend on application) |
| [→] | Move right one characters (depend on application) |
| [Alt] + [↑] | Move left one character |
| [Alt] + [↓] | Move right one character |

# BlackBerry Enterprise Server (BES) Configuration

The *BlueKeyboard* use the EventInjector API to simulate events such as key presses or trackwheel clicks on the BlackBerry handset. In order for these calls to be allowed on handsets connected to a BlackBerry Enterprise Server, the Event Injection must be enabled by the BlackBerry Enterprise Server administrator via Application Control.

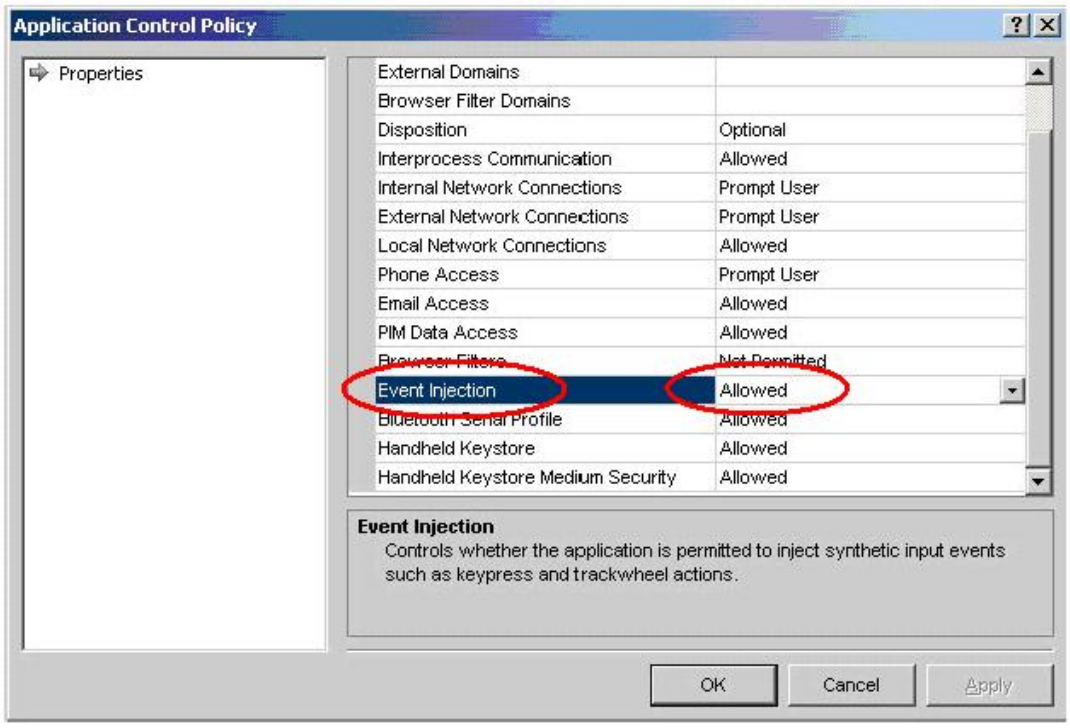
To enable Event Injection, the BES administrator can perform the following steps:

1. From the BlackBerry Enterprise Server, open the BlackBerry Handheld Configuration Tool.
2. In the left pane, click **[Software Configurations]**.
3. Select a software configuration and click **[Edit Software Configuration]**. To create a new Handheld Software Configuration, see the section entitled, "Defining Handheld Software Configurations" in the *Handheld Management Guides*.
4. Click the **[Policies]** button.



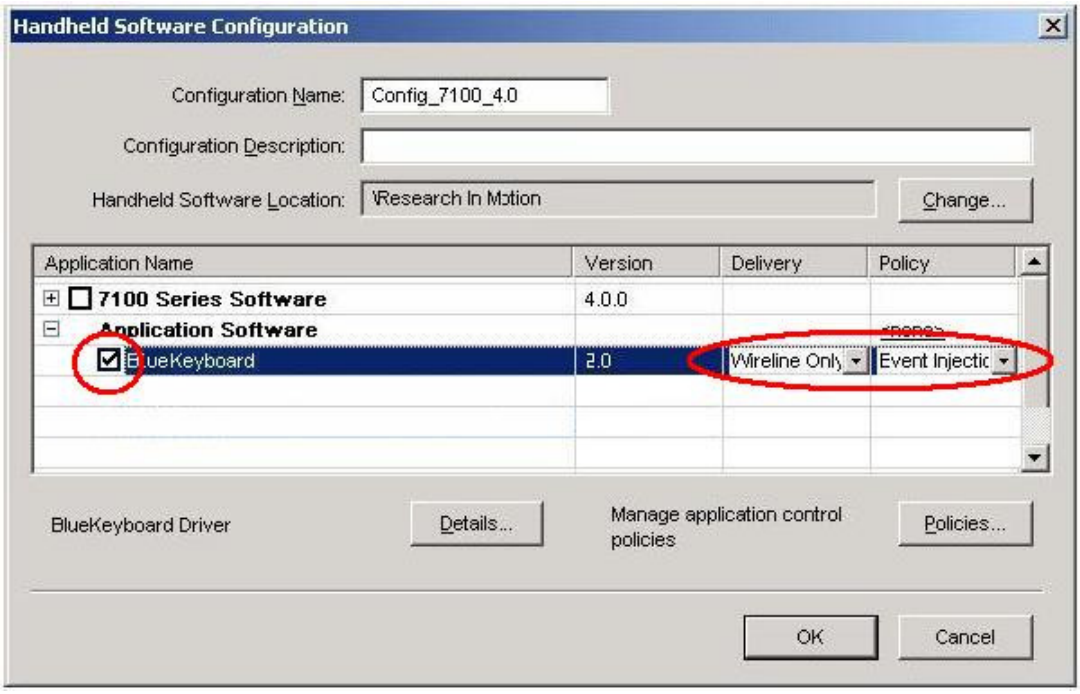

5. Select a policy from the left pane and click the **[Properties]** button, or create a new policy by clicking the **[New]** button.

6. Find the label for Event Injection and change the value to **Allowed**.




7. Click **[OK]** to dismiss the policy properties screen. Click **[OK]** again to dismiss the policies screen.

8. Expand the Application Software tree and check the BlueKeyboard. In the Policy column, use the drop-down list to select the policy that allows Event Injection for the *BlueKeyboard* application. Click **[OK]** to finish.



# FAQ

**Can I use key code from BlueKeyboard v2.0 with new BlueKeyboard v3.0?**

- No. Old BlueKeyboard v2.0 use nine digit format XXX-XXX-XXX; new BlueKeyboard v3.0 use eight digits format XX-XXXX-XX. Both formats are incompatible each other.
- Send us your old key code and we will generate new key code for you.

**I lost my BlueKeyboard key code, what should I do?**

- Install BlueKeyboard v3.0 driver into your handset, go to 'SETTINGS' screen, write down and email the 'BT Address' number to us (see page 24). We will check the number and generate a new key code for you.

**I am unable to install the driver to BlackBerry handset.**

- Ensure your device is listed as being compatible.
- Make sure the USB cable connected to your BlackBerry handset and computer.
- Check the BlackBerry Desktop Manager software; it requires version 4 or higher.
- Ensure you had uninstalled old keyboard drivers from your BlackBerry handset.

**My keyboard is paired but I can't connect it to handset.**

- Make sure you register the driver with the right key code; see page 19.
- Check the **[√] Keyboard Active** feature in **SETTINGS**; see page 23.
- Ensure that handset's Bluetooth is on.

**There is no response on my BlackBerry screen when I type on the keyboard**

- Ensure the keyboard is connected.
- Check the battery condition.
- Ensure the green LED is blinking.

**I can't pair another Bluetooth device to my BlackBerry device after I installed BlueKeyboard.**

- Try disabling BlueKeyboard driver by un-checking the **[ ] Keyboard Active** then save the new settings; see page 23.

**I am in BES network; what can I do to make the keyboard works?**

- Contact your BES administrator to configure the BES; see page 26.

**I got "Injector API policy. Please contact your BES administrator to Unblock Injector API" error message; what should I do?**

- Contact your BES administrator to configure the BES; see page 26.

# Contact Information

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